

## EXEMPLAR PROBLEMS IN BIOLOGY - CLASS XI (Corrections in the questions)

### Chapter 1

#### The Living World

Multiple Choice Questions

3. The term 'systematics' refer to:
- Identification and study of organ systems
  - Identification and preservation of plants and animals
  - Diversity of kinds of organisms and their relationship
  - Study of habitats of organisms and their classification

### Chapter 2

#### Biological Classification

Multiple Choice Questions

8. Associations between Mycobiont and Phycobiont are found in

### Chapter 3

#### Plant Kingdom

Multiple Choice Questions

2. Fusion of two motile gametes which are dissimilar in size is termed as

### Chapter 4

#### Animal Kingdom

Multiple Choice Questions

1. In some animal groups, the body is found divided into compartments with serial repetition of at least some organs. This characteristic feature is called
2. Given below are types of cells present in some animals. Which of the following cells can differentiate to perform different functions?
- 5.
- Pneumatic bones
  - Warm blooded
- 7.
- Asterias* exhibits radial symmetry
13. Column B
- Canal system
  - Water-vascular system
  - Muscular pharynx
  - Jointed appendages
  - Metameres

## Chapter 5

### Morphology of Flowering Plants

Multiple Choice Questions

6.  
a. Coconut

## Chapter 6

### Anatomy of Flowering Plants

Multiple Choice Questions

4. Identify the simple tissue from among the following -
14. In conifers, fibres are likely to be absent in

## Chapter 7

### Structural Organisation in Animals

Multiple Choice Questions

4. Delete the question
5. Setae help in locomotion in earthworm but are not uniformly present in all the segments. They are present in

## Chapter 8

### Cell: The Unit of Life

Multiple Choice Questions

4. Which of the following stains is not used for staining chromosomes?
- a. Basic Fuchsin
  - b. Safranin
  - c. Methylene green
  - d. Carmine

Ans:- b. Safranin

5. Options:

- a. i, iv, iii, ii
- b. i, iii, iv, ii
- c. ii, i, iii, iv
- d. iii, ii, i, iv

6. Which of the following features is common to prokaryotes and many eukaryotes?

- a. Chromatin material present
- b. Cell wall present
- c. Nuclear membrane present
- d. Membrane-bound sub-cellular organelles present

- 10.

- a. Cell wall is made up of peptidoglycans

12.  
c. Presence of thylakoids

## Chapter 9

### Biomolecules

#### Multiple Choice Questions

3. Aminoacids have both an amino group and a carboxyl group in their structure. Which amongst the following is an amino acid?
- Formic acid
  - Glycerol
  - Glycolic acid
  - Glycine
4. An aminoacid under certain conditions have both positive and negative charges simultaneously in the same molecule. Such a form of aminoacid is called
- Acidic form
  - Basic form
  - Aromatic form
  - Zwitterionic form
5. Which os the following sugars have the same number of carbon as present in glucose?
6. An acid soluble compound formed by phosphorylation of nucleoside is called
9. A homopolymer has only one type of building block called monomer repeated 'n' number of times. A heteropolymer has more than one type of monomer. Proteins are heteropolymers usually made of
- 30 types of monomers
13. The primary structure of a protein molecule has
14. Which of the following reactions is not enzyme-mediated in biological system?

## Chapter 10

### Cell Cycle and Cell Division

#### Multiple Choice Questions

1. Meiosis in diploid organisms results in
5.  
d. Pairing of homologous chromosomes

## Chapter 11

### Transport in Plants

#### Multiple Choice Questions

7.  
a. accumulated  
b. bound to cell wall

11.

Options:

- a. A-ii, B-iv, C-v, D-i, E-iii
- b. A-iii, B-ii, C-iv, D-i, E-v
- c. A-i, B-ii, C-iii, D-ii, E-v
- d. A-v, B-iv, C-iii, D-ii, E-i

12. Mark the mismatched pair.

- a. Amyloplast : store protein granule
- b. Elaioplast : store oils or fats
- c. Chloroplasts : contain chlorophyll pigments
- d. Chromoplasts : contain coloured pigments other than chlorophyll

## Chapter 12

### Mineral Nutrition

Multiple Choice Questions

2.

- b. essential element concentration below which plant growth becomes enhanced.

## Chapter 13

### Photosynthesis in Higher Plants

Multiple Choice Questions

4. Which light range is least effective in photosynthesis?

## Chapter 14

### Respiration in Plants

Multiple Choice Questions

6. Delete the question

## Chapter 15

### Plant Growth and Development

Multiple Choice Questions

2. Coconut water contains

8.

- b. Plant development is dependent on the environment

## Chapter 16

### Digestion and Absorption

Multiple Choice Questions

9.

- d. Secretion of hormone called gastrin

10.

- c. Enterokinase is secreted by pancreas

## Chapter 17

### Breathing and Exchange of Gases

#### Multiple Choice Questions

1. Respiration in insects is called direct because
  - a. The cells exchange  $O_2$ /  $CO_2$  directly with the air in the tubes
2. Which of the following does not occur during breathing?
  - b. Brings the air to body temperature
4.
  - d. It increases  $O_2$  transport
8.
  - d. Diaphragm and intercostal muscles
13. From the following relationships between respiratory volume and capacities, mark the correct option

## Chapter 18

### Body Fluids and Circulation

#### Multiple Choice Questions

1. Which of the following cells does not exhibit phagocytic activity?
7. Which one of the following types of cells lack nucleus in humans?
  - d. Erythrocytes
10. Agranulocytes responsible for immune response of the body are

## Chapter 19

### Excretory Products and their Elimination

#### Multiple Choice Questions

3. Which of the following statements is correct?
6.
  - a. D-i, C-ii, B-iii, A-iv
  - b. B-i, D-ii, A-iii, C-iv
  - c. D-i, C-ii, A-iii, B-iv
  - d. B-i, C-ii, A-iii, D-iv

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## Chapter 20

### Locomotion and Movement

#### Multiple Choice Questions

7. Which one of the following pairs is incorrect?
  - a. Hinge joint : between humerus and pectoral girdle
  - b. Pivot joint : between atlas and axis
  - c. Gliding joint : between the carpals
  - d. Saddle joint : between carpals metacarpals of thumb